



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:

H04B 3/56, H01F 27/28

A1

(11) International Publication Number:

WO 00/38347

(43) International Publication Date:

29 June 2000 (29.06.00)

(21) International Application Number: PCT/EP99/10100

(22) International Filing Date: 17 December 1999 (17.12.99)

(30) Priority Data:
198 58 506.3 18 December 1998 (18.12.98) DE(71) Applicant (for all designated States except US): FUBA
COMMUNICATIONS SYSTEMS GMBH [DE/DE];
Bodenburger Strasse 25/26, D-31162 Bad Salzdetfurth
(DE).(72) Inventors; and
(75) Inventors/Applicants (for US only): SCHMIDT, Rainer
[DE/DE]; Martha-Brauttsch-Strasse 3, D-39446 Loderburg
(DE). WIDERA, Günter [DE/DE]; Kirschenweg 5, D-31135
Achtum (DE).(74) Agents: SKORA, Michael; Strasse & Hofstetter, Tiergarten-
strasse 122, D-30559 Hannover (DE) et al.(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG,
BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE,
ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE,
LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT,
BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU,
MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: A REMOTE FEEDER REACTANCE COIL

(57) Abstract

A remote feeder reactance coil and a signal transmission system. The invention relates to a remote feeder reactance coil (100) for energy input and output in signal transmission lines, as well as in signal transmission systems including signal transmission lines, where intermediate amplifiers are supplied with electrical energy via said signal transmission lines. In order to provide a reactionless connection of a high-frequency signal path and a low-frequency energy supply in signal transmission systems over an as large as possible frequency range, at the same time keeping the required manufacturing effort small, the invention provides a remote feeder reactance coil (100) including a primary winding (102) carrying a feed current as well as an attenuation circuit (118) in which at least the secondary winding (112), which is part of said attenuation circuit (118), or the primary winding (102) are of an electrically insulated conductive material, wherein said secondary winding (112) and said primary winding (102) interact through capacitive and/or inductive coupling.

